Wearshield® 60 (e)

CLASSIFICATION

DIN 8555 E10-UM-60-GR

EN 14700 E Fe15

GENERAL DESCRIPTION

A basic coated downhand 200% recovery electrode that produces a primary carbide weld deposit The electrode coating facilitates easy arc control and arc visibility whilst maintaining a short arc Designed for severe abrasion applications

WELDING POSITIONS (ISO/ASME)

CURRENT TYPE

AC / DC +/-





CHEMICAL COMPOSITION (W%), TYPICAL, ALL WELD METAL

С	Cr	Si
5.0	35	4

STRUCTURE

In the as welded condition the microstructure consists of primary chromium carbides in an austenite - carbide eutectic matrix.

MECHANICAL PROPERTIES, TYPICAL, ALL WELD METAL

Typical hardness values

1 Layer 57-60 HRc 2 Layers 60-62 HRc Welded on Mild Steel Plate

PACKAI			

	Diameter (mm)	3.2	3.2	4.0	4.0
	Length (mm)	350	450	350	450
PE-Tube	Pieces / unit	48	37	32	23
	Net weight/unit (kg)	2.5	2.5	2.5	2.5

 Identification
 Imprint: WEARSHIELD 60 (E)
 Tip Color: violet
 Wearshield'60 (g) rev. C-ENZ5-01/02/h6

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APPLICATION

Wearshield 60 produces an primary carbide deposit with a hardness range of 60-62 HRc.

The primary carbide microstructure makes Wearshield 60 ideally suitable for applications of severe abrasion

Typical applications include:

Crusher rolls, plates and jaws Conveyor screws and sleaves Shovel lips Brick & coke machinery Cement mill parts













ADDITIONAL INFORMATION

When welding with Wearshield 60 stringer beads should be employed. Weaving is not advised since wide weaves generally increase the check crack spacing which can result in deposit spalling.

The as-welded deposit readily check cracks.

Preheat is not necessary when surfacing austenitic substrates such as stainless steels and manganese steels, although the interpass temperature should be limited to about 260°C for manganese steels.

The deposited weld metal is not machinable.

The deposit thickness is usually limited to 2 layers.

For applications requiring build-ups in excess of 2 layers, buttering layers of Arosta 307-160, Wearshield BU-30 or Wearshield Mangjet (manganese steels) should be used prior to Wearshield 60. Alternatively, a preheat of 650°C can be used to eliminate the formation of check cracks.

CALCULATION DATA

Sizes Diam. x length	Current range	Current type	Dep. rate
(mm)	(A)		H(kg/h)
3.2 x 450	110-150	DC+	1.75
4.0 x 450	140-180	DC+	2.2

COMPLEMENTARY PRODUCTS

Lincore® 60-0 and Lincore® 60-S with flux 801 or 802

